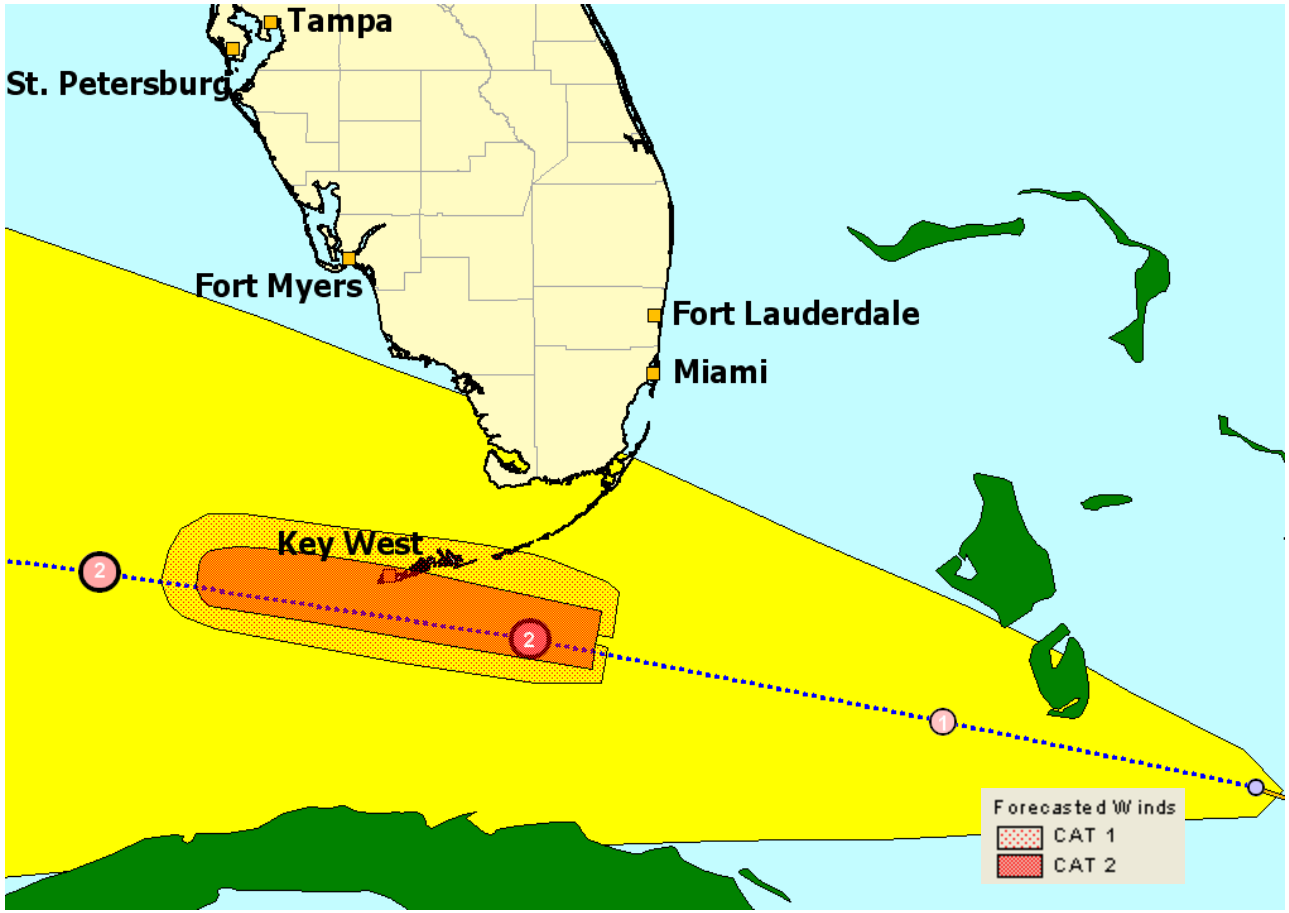
Hurricane Rita Wind Distribution

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Wind Fields

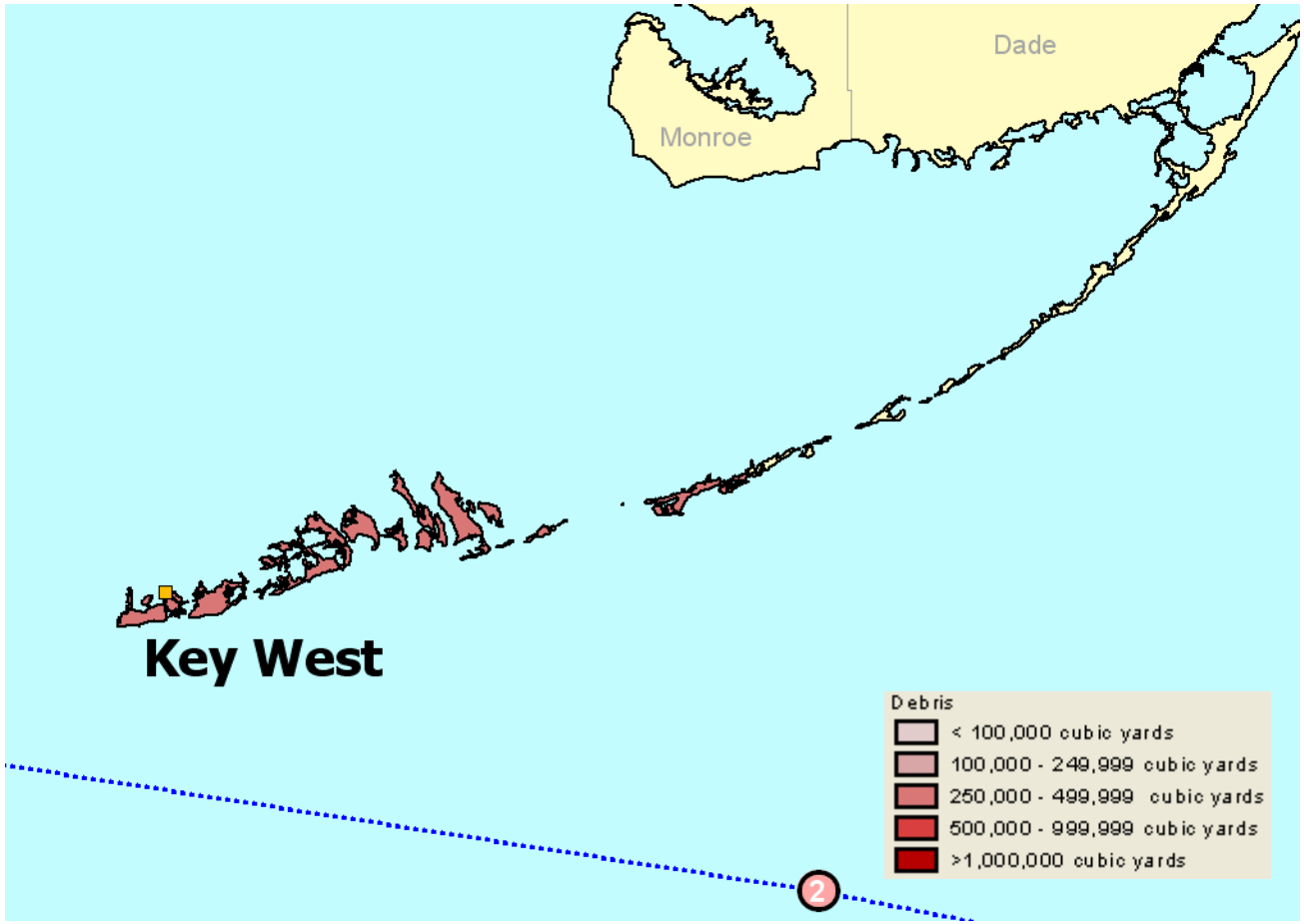
Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 323,000 yd^3

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Debris Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	County	Yards per County
Florida	Monroe	323,000
TOTAL		323,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Debris Model

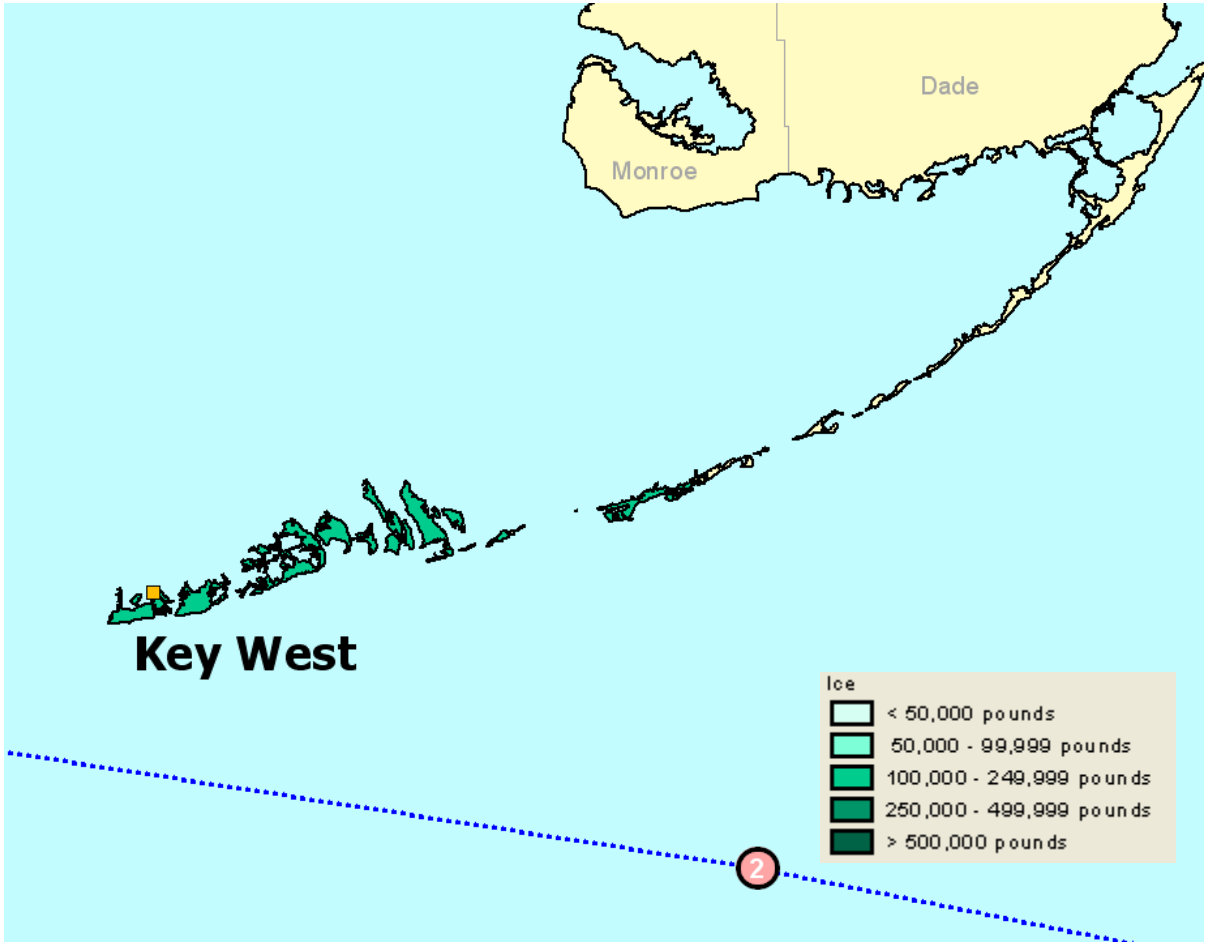
Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Ice Model

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Ice Model Results

Florida –
4 Truckloads Day One
4 Truckloads Day Two
4 Truckloads Day Three

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, Fl

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Ice Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Ice Model

Landfall Expected In About **24** Hours

For Official Use Only!

Ice/Water Commodities - Trucks/Distribution Lanes Ramp-up
(Number of Trucks Each Commodity and Lanes Anticipated - end of each day)

	Day One (25%)*	Day Two (50%)*	Day Three (100%)*	Commodity Trucks Day 1-3 Total	Within Hurricane Force Winds Population	Households
Key West Landfall Track						
Florida	4	4	4	12	53,000	23,000
Total	**4**	**4**	**4**	**12**	**53,000**	**23,000**

Key assumption is that establishment of distribution lanes will be the limiting factor.

* Assumption is that States/locals (FL is the * exception) will have the capability to establish about 25% of needed distribution lanes in the first 24 hours post-landfall, about 50% of needed distribution lanes in the first 48 hours after landfall, and all needed lanes by 72 hours post landfall. Florida, due to past experience, estimates they can establish up to 50 distribution lanes per day.

Rita CAT2 24 hour assumption - 40% of the population within hurricane force winds will require water and/or ice

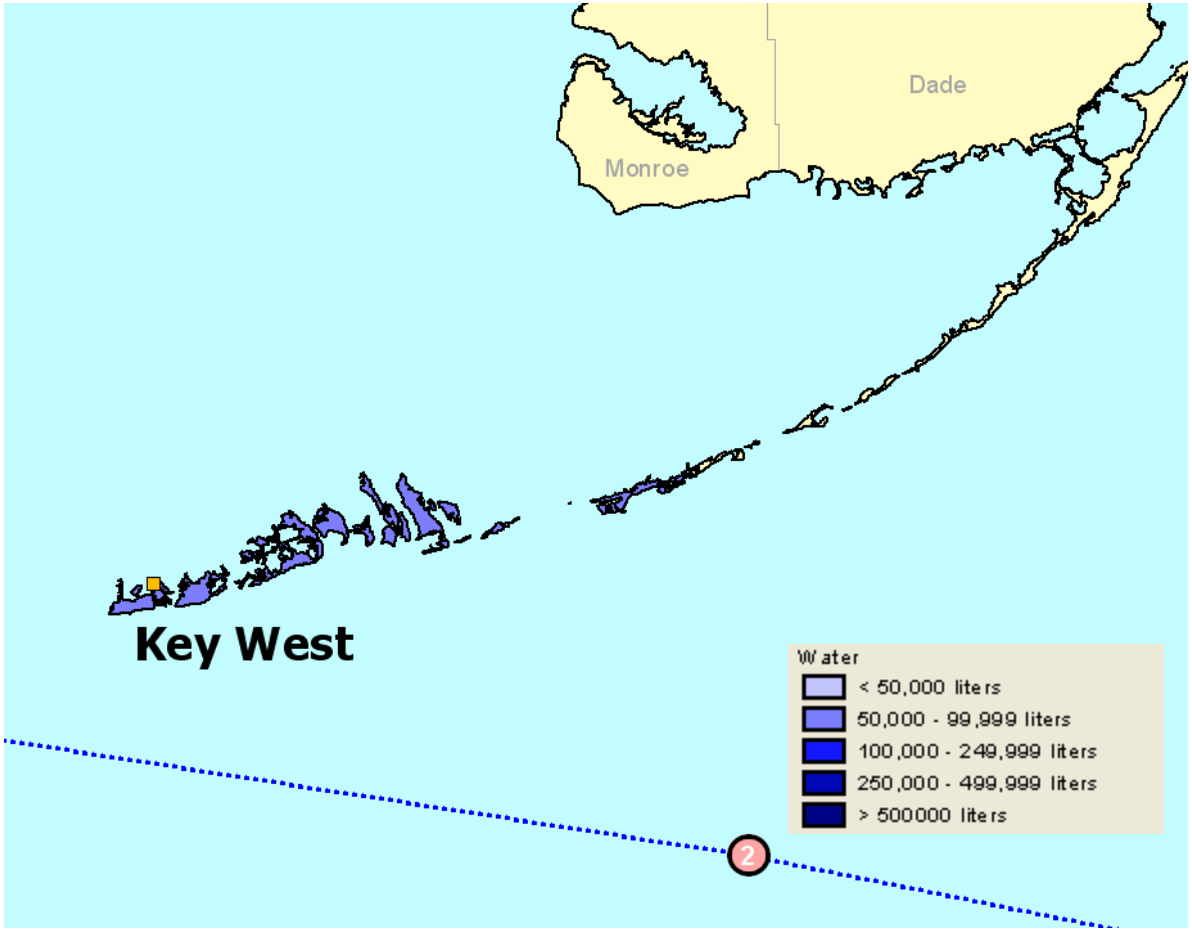
The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Rita Water Model

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida –
4 Truckloads Day One
4 Truckloads Day Two
4 Truckloads Day Three

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Water Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Water Model

Landfall Expected In About **24** Hours

For Official Use Only!

Ice/Water Commodities - Trucks/Distribution Lanes Ramp-up
(Number of Trucks Each Commodity and Lanes Anticipated - end of each day)

	Day One (25%)*	Day Two (50%)*	Day Three (100%)*	Commodity Trucks Day 1-3 Total	Within Hurricane Force Winds Population	Households
Key West Landfall Track						
Florida	4	4	4	12	53,000	23,000
Total	**4**	**4**	**4**	**12**	**53,000**	**23,000**

Key assumption is that establishment of distribution lanes will be the limiting factor.

* Assumption is that States/locals (FL is the * exception) will have the capability to establish about 25% of needed distribution lanes in the first 24 hours post-landfall, about 50% of needed distribution lanes in the first 48 hours after landfall, and all needed lanes by 72 hours post landfall. Florida, due to past experience, estimates they can establish up to 50 distribution lanes per day.

Rita CAT2 24 hour assumption - 40% of the population within hurricane force winds will require water and/or ice

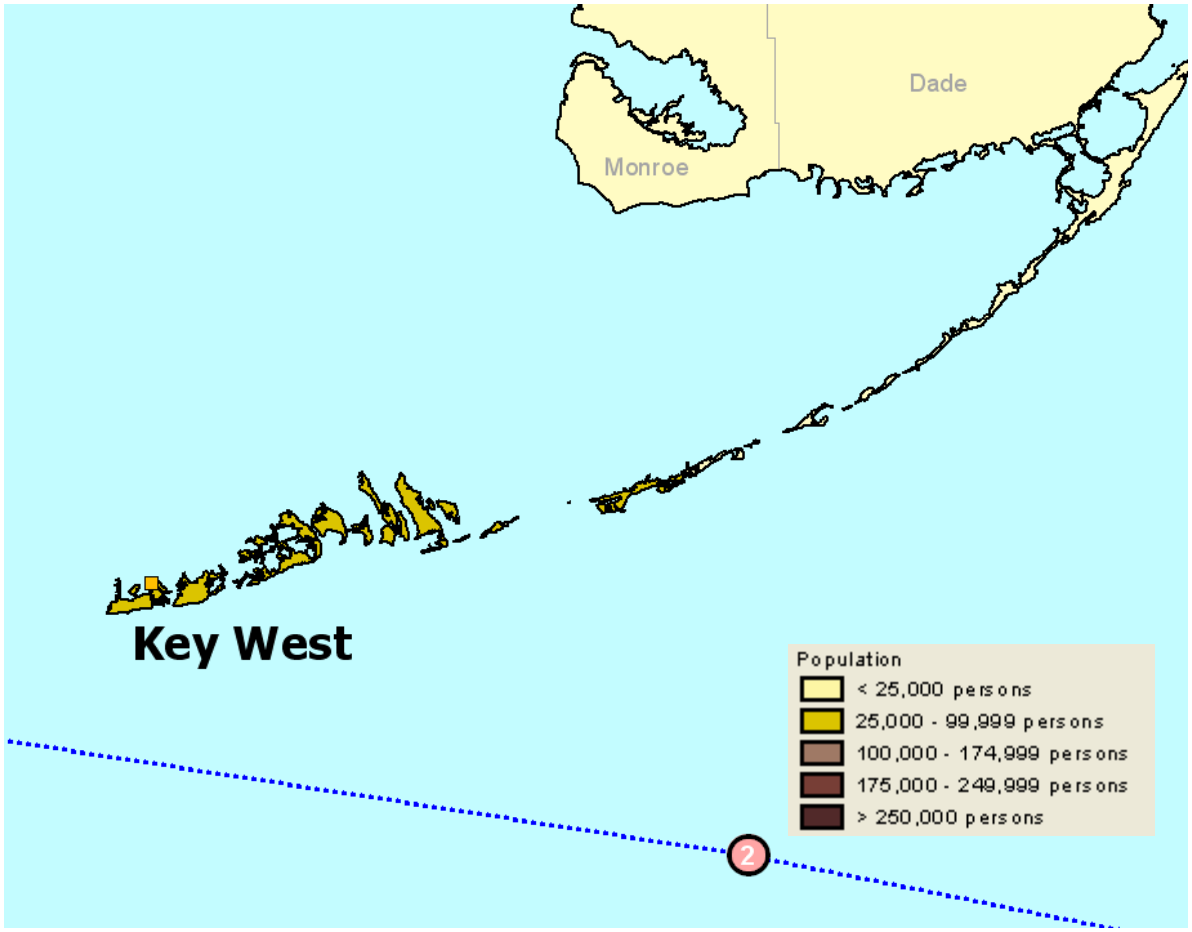
The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Rita Population Model

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 53,000 persons

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers **Hurricane Rita Population Model**

Generated By: Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources: HURREVAC LRL-DEBRIS

Hurricane Rita Population Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	County	Population per County
Florida	Monroe	53,000
TOTAL		53,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Population Model

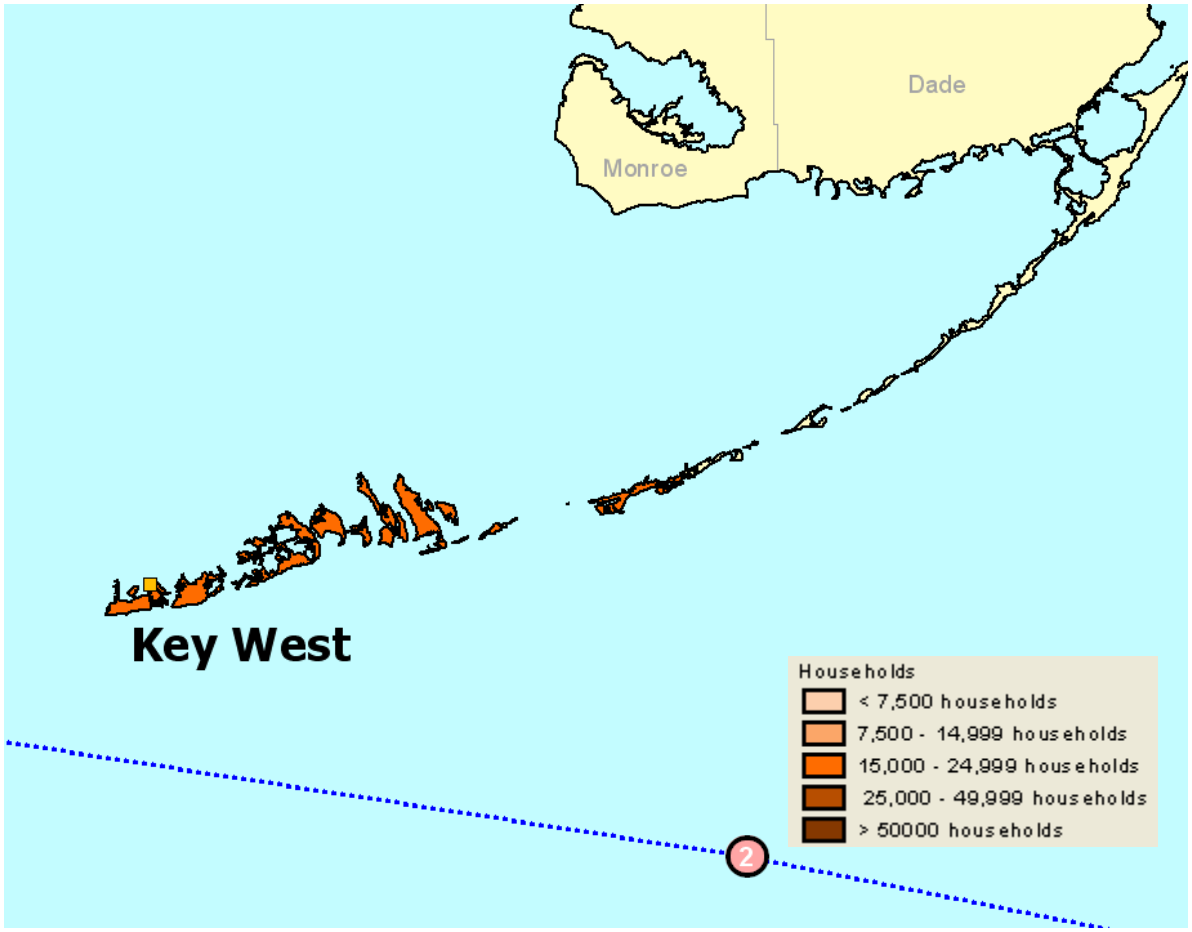
Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Expected In About **24** Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 23,000 households

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	County	Households per County
Florida	Monroe	23,000
TOTAL		23,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

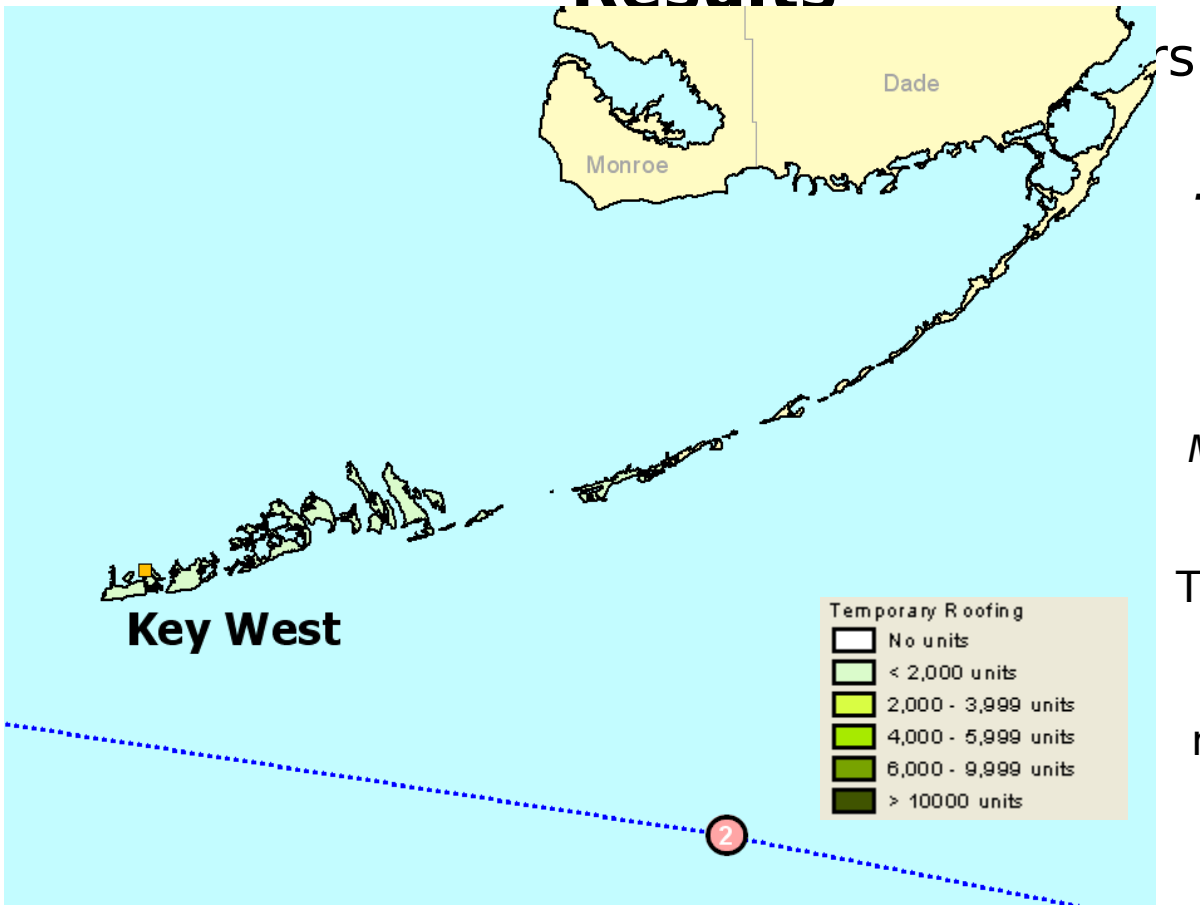
Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

For Official Use Only!



Most Probable Landfall Temporary Roofing Model Results

Florida – 700

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind area and 4% of housing units damaged in CAT 2 wind area.. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Roofing Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

Landfall Expected In About **24** Hours

For Official Use Only!

State	County	Houseunits per County
Florida	Monroe	700
TOTAL		700

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind area and 4% of housing units damaged in CAT 2 wind area.. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Roofing Model

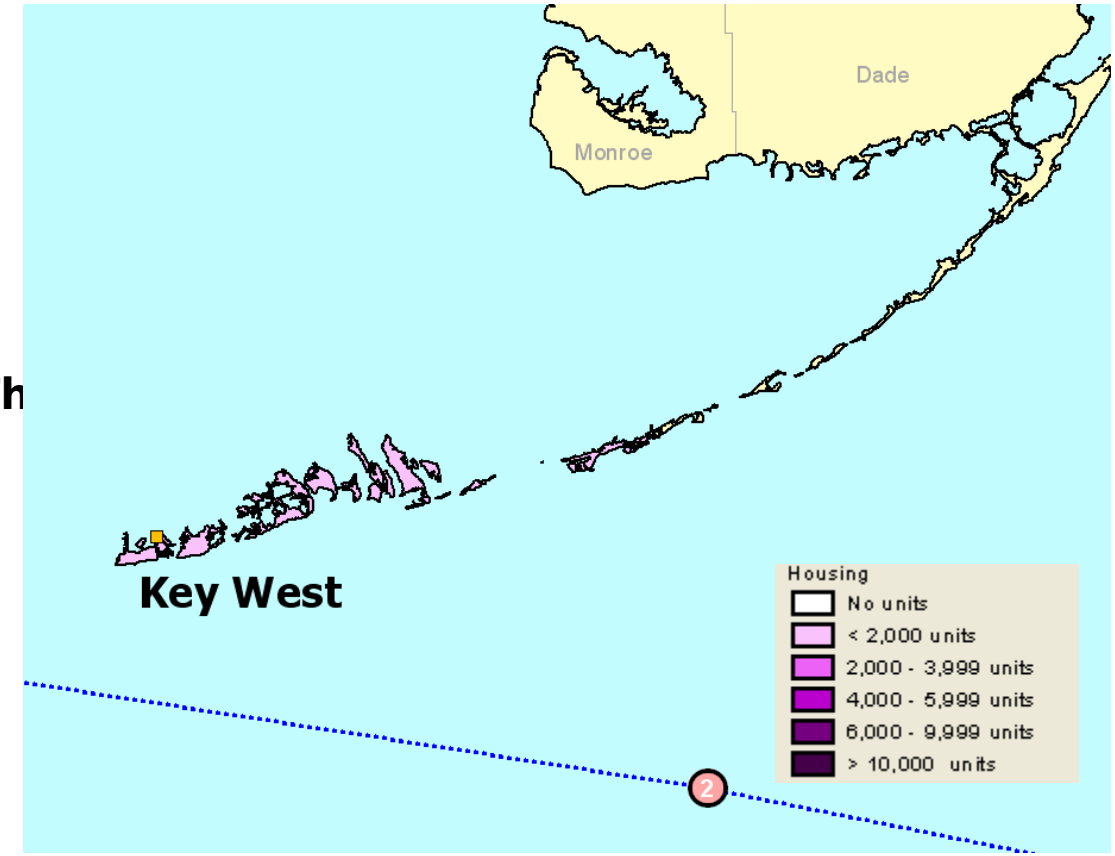
Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

For Official Use Only!

Hours



Most Probable Landfall Temporary Housing Model Results

Florida – 100

Model results per county on following page

This model is based on a Category 2 storm making landfall in near proximity to Key West, FL.

Information provided on this page displays a Category 2 storm making landfall near Key West, FL. These projections are based on information from the NHC ***(1700 EDT 09/19/2005)*** forecast. The amount of temporary housing that may be required is based on no housing need in CAT 1 wind area and 2% of the housing units in CAT 2 require temporary facilities.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Housing Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

Landfall Expected In About **24** Hours

For Official Use Only!

State	County	Houseunits per County
Florida	Monroe	100
TOTAL		100

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas and 2% of the housing units in CAT 2 require temporary facilities.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Housing Model

Generated By:
Paul Deatrick, LRL 1730 EDT 09/19/2005

Sources:
HURREVAC
LRL-DEBRIS